
APPENDIX C

COMPOSITE OF INSTREAM HABITAT SUMMARY STATISTICS FOR ALL REACHES IN LOWER GREEN RIVER

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Composite of Instream Habitat Summary Statistics for All Reaches in Lower Green River

Parameter	Reach 1	Reach 2	Reach 3	Reach 4	Reach 5
Location	RM 32.1 to 26.6	RM 26.6 to 19.1	RM 19.1 to 15.6	RM 15.6 to 11.2	RM 11.2 to 5.7
Reach length	8.9 km (5.5 miles)	12.1 km (7.5 miles)	5.6 km (3.5 miles)	7.1 km (4.4 miles)	8.9 km (5.5 miles)
River discharge during surveys1	200 to 290 cfs	200 to 290 cfs	200 to 290 cfs	200 to 290 cfs	200 to 290 cfs
Number of stations	32	41	19	24	30
Number of stations at glide habitats	14	33	14	23	26
Number of stations at pool habitats	8	7	4	1	4
Number of stations at riffle habitats	8	1	0	0	0
Number of stations at run habitats	2	0	1	0	0
Average OHWM width (used in channel width (CW) calculations)	39 m	27 m	26 m	28 m	50 m
Average wetted width	33 m	25 m	23 m	25 m	46 m
Total number of pools (large and small)2	18	41	8	6	6
Total pool frequency (large and small)	13 CW/pool	11 CW/pool	27 CW/pool	42 CW/pool	29 CW/pool
Total number of pools per mile (large and small)	3.3	5.5	2.3	1.4	1.1
Number of large pools	14	20	5	1	3
Large pool frequency	16 CW/pool	22 CW/pool	44 CW/pool	254 CW/pool	59 CW/pool
Number of large pools per mile	2.5	2.7	1.4	0.2	0.5
Percent large pools by length	21%	20%	21%	1%	5%
Percent large pools by area3	10%	15%	16%	< 1%	3%
Dominant large pool forming factor	Riprap	Riprap	Riprap	Riprap/bedrock	Riprap
Large Pools formed by wood	1	1	0	0	0
Number of small pools2	4	21	3	5	3
Small pool frequency	57 CW/pool	21 CW/pool	73 CW/pool	51 CW/pool	59 CW/pool
Number of small pools per mile	0.7	2.8	0.9	1.1	0.5
Total wood pieces (logs and rootwads)	105	503	249	174	202
Total wood pieces frequency1	0.5 pieces per CW	1.1 pieces per CW	1.1 pieces per CW	0.7 pieces per CW	1.1 pieces per CW
Total number of wood pieces per mile	19 pieces per mile	67 pieces per mile	71.1 pieces per mile	40.0 pieces per mile	36.7 pieces per mile
Number of key pieces (with and without rootwads)	5 with, 2 without	8 with, 4 without	0 with, 0 without	0 with, 0 without	1 with, 0 without
Key piece frequency1	0.03 pieces per CW	0.03 pieces per CW	0 pieces per CW	0 pieces per CW	0.01 pieces per CW
Number of key pieces per mile	1.3	1.6	0	0	0.2
Number of large wood pieces (with and without rootwads)	19 with, 8 without	55 with, 89 without	21 with, 54 without	52 with, 39 without	39 with, 51 without
Large wood pieces frequency	0.01 pieces per CW	0.33 pieces per CW	0.34 pieces per CW	0.4 pieces per CW	0.5 pieces per CW
Number of large wood pieces per mile	4.9	19.2	21.4	20.7	16.4
Number of medium wood pieces (with and without rootwads)	24 with, 25 without	49 with, 119 without	41 with, 99 without	40 with, 31 without	8 with, 62 without
Medium wood pieces frequency	0.2 pieces per CW	0.4 pieces per CW	0.64 pieces per CW	0.3 pieces per CW	0.4 pieces per CW
Number of medium wood pieces per mile	8.9	22.4	40.0	16.1	12.7
Number of rootwads	22	179	34	12	41
Total number of logjams	0	2	0	0	0
Average percent of visible armoring for both banks	37%	41%	42%	57%	35%
Substrate D16	18 mm	10 mm	n/a	n/a	n/a
Substrate D50	50 mm	20 mm	n/a	n/a	n/a
Substrate D84	83 mm	40 mm	n/a	n/a	n/a
Dominant riparian vegetation type	mature native	Invasive	Invasive	Invasive	Invasive

Parameter	Reach 1	Reach 2	Reach 3	Reach 4	Reach 5
Range of percent overhanging vegetation for both banks	0% to 90%	0% to 75%	0% to 3%	0% to 40%	0% to 50%
Median overhanging vegetation for both banks	18%	5%	0%	2%	2%
Range of percent canopy cover	23% to 66%	17% to 70%	5% to 46%	21% to 50%	5% to 59%
Median canopy cover	44%	40%	34%	37%	44%
Number of existing and potential gravel storage areas	17 existing, 0 potential	4 existing, 1 potential	0 existing, 0 potential	0 existing, 0 potential	0 existing, 0 potential

Notes:
1-Flow based on USGS Gauge #12113000, Green River near Auburn, Washington
2-Small pools are those covering 25 percent to 50 percent of wetted width.
3- Area in reach calculated as reach length times average OHWM width.